

## CLAIM AMENDMENTS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Previously Presented) A method comprising:  
receiving source code;  
transforming the source code to intermediate code;  
executing the intermediate code based on external execution input;  
generating data that indicates performance of the intermediate code when the intermediate code is executed with the external execution input; and  
producing machine code based on the data and the intermediate code.
2. (Canceled).
3. (Previously Presented) The method of claim 1, wherein executing the intermediate code comprises simulating execution of the intermediate code.
4. (Previously Presented) The method of claim 1, wherein generating the data regarding the performance of the executed intermediate code comprises generating a performance profile.
5. (Previously Presented) The method of claim 4, wherein generating the data regarding the performance of the executed intermediate code further comprises annotating the intermediate code based, at least in part, on performance profile data.
6. (Original) The method of claim 5, wherein annotating the intermediate code comprises concatenating data structures that include the performance profile data to intermediate code to embed the performance profile data into the intermediate code.
7. (Original) The method of claim 5, wherein annotating the intermediate code comprises:

generating a file that includes the performance profile data; and  
mapping the performance profile data to corresponding portions of intermediate  
code.

8. (Previously Presented) The method of claim 5, wherein producing machine code based on the data and intermediate code includes providing the annotated intermediate code to a compiler, wherein the compiler produces the machine code based on annotated intermediate code.

9. (Original) The method of claim 5, wherein the performance profile data comprises one or more of branch statistics, loop statistics and function invocation statistics.

10. (Original) The method of claim 8, wherein the machine code executes faster than the intermediate code.

11. – 15. (Canceled).

16. (Previously Presented) The method of claim 1, further comprising:  
receiving the external execution input; and  
using the external execution input to execute the intermediate code.

17. (Original) The method of claim 1, wherein the data comprises one or more of plain-text format, binary representations, database maps, and character delimited proprietary format.

18. (Previously Presented) A method comprising:  
transforming source code into intermediate code;  
providing the intermediate code to a profiler that executes the intermediate code based on external execution input and generates annotated intermediate code based on

the performance of the executed intermediate code when the intermediate code is executed with the external execution input;

receiving from the profiler the annotated intermediate code; and

transforming the annotated intermediate code into machine code.

19. (Original) The method of claim 18, wherein the annotated intermediate code is annotated to include one or more of branch statistics, loop statistics and function invocation statistics.

20. (Original) The method of claim 18, wherein providing the intermediate code to a profiler comprises providing the intermediate code to a virtual machine.

21. – 40. (Cancelled)

41. (Previously Presented) An article of manufacture comprising:

a computer readable storage medium including thereon sequences of instructions that, when executed, cause an electronic system to:

receive source code;

produce intermediate code based on the source code;

execute the intermediate code based on external execution input;

generate performance data that indicates performance of the intermediate code when the intermediate code is executed with the external execution input; and

produce machine code based on the intermediate code and the performance data.

42. (Canceled).

43. (Previously Presented) The article of manufacture of claim 41, wherein the sequences of instructions that, when executed, cause the electronic system to generate the data regarding the performance of the executed code comprise sequences of instructions that, when executed, cause the electronic system to generate a performance profile.

44. (Original) The article of manufacture of claim 43, wherein the sequences of instructions that, when executed, cause the electronic system to cause the executed code to be modified based, at least in part, on the data comprise sequences of instructions that, when executed, cause the electronic system to annotate the intermediate code based, at least in part, on performance profile data.

45. (Previously Presented) The article of manufacture of claim 44, wherein the computer readable storage medium further comprises sequences of instructions that, when executed, cause the electronic system to provide the annotated intermediate code to a compiler, wherein the compiler transforms the annotated intermediate code into machine code.

46. – 49. (Cancelled)

50. (Previously Presented) A system comprising:  
a processor;  
a dynamic random access memory coupled with the processor; and  
an article of manufacture comprising a computer readable storage medium including thereon sequences of instructions that, when executed, cause an electronic system to:

receive source code;  
produce intermediate code based on the source code;  
execute the intermediate code based on external execution input;  
generate data that indicates performance of the intermediate code when the intermediate code is executed with the external execution input; and  
produce machine code based on the data and the intermediate code.

51. – 52. (Canceled).

53. (Previously Presented) The system of claim 50, wherein the computer readable storage medium further comprises sequences of instructions that, when executed, cause the electronic system to:

receive external execution input; and

use the external execution input to execute the intermediate code.